

Work Order ID 139978

139978

Page 1

December 16, 2015 9:26:28 AM

Item ID: 646.4001

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 1/8/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date: 12-01-15 12:16

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

646.4000

B

DAS

6

9-89

MLJ 16-01-12

100

Document Control

0.00

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.4001

DAS

27

9-89

10/1/4

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

JAN 08 2016

DAS

6

9-89

DAS

28

9-89

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS

27

9-89

10/2/4

December 16, 2015 9:26:28 AM

Item ID: 646.4001

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015 **Start Qty:** 1.00

1

Cust Item ID:

Required Date: 1/8/2016 **Req'd Qty:** 1.00

1

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/
Work Center ID

Operation Description

Set Up/ Run Hours

Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
---------	--------	-----------	------------	------------	---------------	-------------

130

0.00

130

Packaging

0.00

Packaging

Memo

Packaging

Identify and pack for shipping as per PPP 646.4001

Location: _____

001
Solo

DAS 27
28 9-89
9-89

FEB 04 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

MUS

FEB 04 2016

MCS

FEB 04 2016

Picklist Print

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646.3301* Upper Cutter Assy		Manufactured	No				Each	7.0000	**	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				cck018			7						
				136156			2						
				136497			5						
646.3001 *646.3001* Lower Cutter Assy		Manufactured	No				Each	0.0000	**	1			
										140852			
646.2910 *646.2910* Deflector		Manufactured	No				Each	8.0000	**	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				CCK050			8						
				136136			8						
646.3810 *646.3810* Bracket		Manufactured	No				Each	10.0000	**	2			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				CCK106			10						
				136186			10						

JAN 08 2016
DAS 6 9-89

DAS 28 9-89

JAN 29 2016
DAS 6 9-89
DAS 28 9-89

DAS 6 9-89
DAS 28 9-89

DAS 6 9-89
DAS 28 9-89

JAN 11 2016

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3510
646-3510
Strut

Manufactured No

Each 6.0000

**

DAS
6
9-89
DAS
28
9-89

BAS
27
9-89
646.3511
646-3511
Strut

Manufactured No

Each 5.0000

**

DAS
6
9-89
DAS
28
9-89

BAS
27
9-89
647.0112
647-0112
Strut Bracket

Manufactured No

Each 91.0000

**

DAS
6
9-89
DAS
28
9-89

BAS
27
9-89
647.7703
647-7703
Strut Assembly

Manufactured No

Each 8.0000

**

DAS
6
9-89
DAS
28
9-89
JAN 11 2016

Location
cck104
136114

Loc Qty
6
6

Loc Code

Location
cck104
136169

Loc Qty
5
5

Loc Code

Location
CCK007
M130388

Loc Qty
91
91

Loc Code

Location
CCK114
136459
138238

Loc Qty
8
4
4

Loc Code

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

per ECN 15-501

NAS1149F0332P

Purchased

No

Each

1,657.000

NAS1149F0332P

Washer

DAS

6

9-89

DAS

28

9-89

MS21042L3

Purchased

No

Each

1,830.000

MS21042L3

Nut

DAS

6

9-89

DAS

28

9-89

Location

ST262

Loc Qty

1657

Loc Code

m133709

1657

Location

FP001

Loc Qty

188

Loc Code

m133790

188

GA

279

m133790

279

ST304

1363

m133790

1363

646.3110

Manufactured

No

Each

8.0000

6463110

Channel

DAS

6

9-89

DAS

28

9-89

Location

cck020

Loc Qty

8

Loc Code

136153

2

136492

6

646.3710

Manufactured

No

Each

15.0000

6463710

Doubler

DAS

6

9-89

DAS

28

9-89

Location

CCK002

Loc Qty

15

Loc Code

127550

15

JAN 11 2016

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3210
646 3210
Support

Manufactured No

Each 10.0000

**

DAS 28
6 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

10

135549

1

136217

9

646.3713
646 3713
Gusset

Manufactured No

Each 6.0000

**

DAS 28
6 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

6

120631

6

MS24694-S51

Purchased No

Each 61.0000

**

DAS 28
6 9-89

MS24694-S51
Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

61

m130928

61

AN3-13A

Purchased No

Each 46.0000

**

DAS 28
6 9-89

AN3-13A
Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

23

m131305

23

JAN 7 7 2016

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

ANS-4A

Purchased

No

Each

178.0000

AN3-4A

Bolt

**

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m133694

100

ST350

78

m129682

13

m132334

65

Each

116.0000

**

10

DAS
6
28
9-89

CR3213-5-3

Purchased

No

CR3213-5-3

Cherry Rivet

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

Each

127.0000

**

7
3
14
m132317

DAS
6
28
9-89

MS20470AD5-5.5

Purchased

No

MS20470AD5-5 5

Rivet

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

127

123425

127

Each

26.0000

**

8
1

DAS
6
28
9-89

646.3711

Manufactured

No

646.3711

Clip

Location

Loc Qty

Loc Code

cck105

26

120626

26

DAS
28
9-89

JAN 11 2016

DAS
27
9-89

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712
646-3712
Clip

Manufactured No

Each 16.0000

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

16

101119

1

120630

15

Each

12.0000

**

DAS
6
9-89
DAS
28
9-89

646.3811
646-3811
Radius Block

Manufactured No

Each

Location

Loc Qty

Loc Code

CCK106

12

122938

12

Each

148.0000

**

DAS
6
9-89

DAS
28
9-89

AN3-6A

AN3-6A
Bolt

Purchased No

Location

Loc Qty

Loc Code

over003

100

M133561

100

ST338a

48

M131305

48

Each

76.0000

**

DAS
6
9-89

DAS
28
9-89

MS24694-S55

MS24694-S55
Screw

Purchased No

Location

Loc Qty

Loc Code

ST289

76

m132803

76

JAN 11 2016

DAS
27
9-89

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3610 Manufactured No

Each 5.0000

646.3610

Filler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

5

136278

5

Each

8.0000

**

DAS
6
9-89
DAS
28
9-89

646.3714 Manufactured No

646.3714

Gusset

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

8

120632

8

Each

1,008.000

**

DAS
6
9-89

DAS
28
9-89

MS20470AD5-6 Purchased No

MS20470AD5-6

RIVET

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

118

105433

118

Each

11.0000

**

DAS
6
9-89
DAS
28
9-89

646.3812 Manufactured No

646.3812

Gusset Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

11

136113

6

138194

5

DAS
6
9-89

DAS
28
9-89

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-3A Purchased No

Each 300.0000

AN3-3A

Bolt

**

4

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

104

m131624

104

ST350

196

m133483

96

m133833

100

DAS
6
9-89
DAS
28
9-89

646.3813 Manufactured No

Each 11.0000

646-3813

Strut Bracket

**

4

Location

Loc Qty

Loc Code

CCK106

11

127453

1

132541

5

138267

5

DAS
6
9-89
DAS
28
9-89

MS20470AD5-7 Purchased No

Each 524.0000

MS20470AD5-7

Rivet

**

3

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

524

123425

524

JAN 4 1 2016

DAS
27
9-89

3

DAS
6
9-89
DAS
28
9-89

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3 Purchased No

Each 155.0000

MS21047-3

Nut-Plate

**

18

BAS
27
9-89

Location

Loc Qty

Loc Code

ST301

147

m133234

47

m133577

50

m133790

50

ST303

8

m130388

8

Each 398.0000

**

36

CCR264SS3-02

Purchased No

CCR264SS3-02

Rivet, Cherry

Location

Loc Qty

Loc Code

ST321

398

M132317

4

M133134

2

M133316

192

M133790

200

Each 161.0000

**

33

AN3-5A

Purchased No

AN3-5A

Bolt

Location

Loc Qty

Loc Code

FP001

30

m133686

30

ST350

131

m133686

131

JAN 11 2016

BAS
27
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
28
9-89

DAS
6
9-89

2

Picklist Print

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3715 Manufactured No

Each 5.0000

646 3715

Strut Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

5

135537

5

MS27039-1-12

Purchased No

Each 128.0000

MS27039-1-12

Screw

Location

Loc Qty

Loc Code

over006

100

m133483

100

ST285

28

m133031

28

646.3716

Manufactured No

Each 12.0000

646 3716

Gauge Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

12

133105

1

136122

3

136410

8

MS20426AD5-7

Purchased No

Each 58.0000

MS20426AD5-7

RIVET

Location

Loc Qty

Loc Code

ST311

58

101340

8

M132767

50

DAS
27
9-89

**

2

DAS
6
9-89

DAS
28
9-89

139892

**

6

DAS
28
9-89

**

1

DAS
6
9-89

DAS
28
9-89

**

2

JAN 11 2016

DAS
6
9-89

DAS
28
9-89

2

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-S54

Purchased

No

Each

102.0000

MS24694-S54

SCREW

BAS
27
9-89

Location

Loc Qty

Loc Code

ST284

102

m133031

2

m133134

100

Each

396.0000

**

DAS
6
9-89
DAS
28
9-89

MS27039-1-21

Purchased

No

MS27039-1-21

Screw

Location

Loc Qty

Loc Code

over006

245

m127904

245

ST279

150

m127904

150

ST284

1

m126319

1

Each

190.0000

**

DAS
6
9-89
DAS
28
9-89

MS27039-1-20

Purchased

No

MS27039-1-20

Screw

Location

Loc Qty

Loc Code

ST284

190

124326

190

Each

134.0000

**

DAS
6
9-89
DAS
28
9-89

MS27039-1-19

Purchased

No

MS27039-1-19

Screw

Location

Loc Qty

Loc Code

GA

4

m124326

4

ST280

130

m133134

130

**

DAS
6
9-89
DAS
28
9-89

JAN 08 2016

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3717 Manufactured No

Each 7.0000

646-3717

Doubler

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

cck105

7

120633

7

646.3718 Manufactured No

Each 0.0000

646-3718

Custom Washer

**

DAS 6 28
9-89 9-89

646.3719 Manufactured No

Each 8.0000

646-3719

Doubler

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

cck105

8

120634

8

MS27039-1-10 Purchased No

Each 167.0000

MS27039-1-10

SCREW

**

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

73

m132677

73

ST285

3

m123522

2

m132640

1

JAN 08 2016
DAS 6 28
9-89 9-89

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Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No

Each 154.0000

10

AN3-11-A

Bolt

**

DAS

6 DAS
9-89 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

150

m133363

50

m133561

100

ST349

4

m133234

4

Each 19.0000

**

DAS

6 DAS
9-89 28
9-89

600.0990

Purchased No

600-0990

Magnabond 6398 Part A

DAS
27
9-89

07/2016

Location

Loc Qty

Loc Code

CA

12

M133800

12

PKG

7

M131589

7

2/11/2016

Each 20.0000

**

DAS
6

9-89 DAS
28

600.0991

Purchased No

600-0991

MAGNOBOND 6398 PART B

07/2016

Location

Loc Qty

Loc Code

CA

12

m133800

12

PKG

8

m131589

8

2/11/2016

JAN 07 2016

DAS
27
9-89

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Work Order ID: 139978

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139978

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No

Each 19.0000

600 1012
Sealant PR1425B2 (#654 sem)

DAS
6

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

18

m133515

8

m133800

8

m133380

2

6/1/2016

cck018

1

m131364

1

10/30/2015

DAS
6

9-89

600.0129 Purchased No

f 541.0000

600 0129
VHB TAPE 75935A651

DAS
6

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK095

541

m127920

325

m131311

216

600.1013 Purchased No

Each 875.0000

600 1013
021200-3M TAPE PRIMER 94 PRIMER 24216

DAS

DAS
28

Location

Loc Qty

Loc Code

CCK095

875

m131145

875

6/15/2016

DAS
6
9-89
JAN 07 2016

646.3910 Manufactured No

Each 4.0000

646 3910
Shim

DAS
6

DAS
28

JAN 14 2016

Location

Loc Qty

Loc Code

CCK106

4

122951

4

DAS
27
9-89

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Work Order ID: 139978

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3911

Manufactured No

Each

66.0000

646-391-1

Shim

**

DAS
6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck104

18

126229

18

CCK106

48

126059

48

DAS
27
9-89

646.3912

Manufactured No

Each

36.0000

646-391-2

Shim

**

DAS
6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck023a

10

124501

10

CCK106

26

123143

26

DAS
27
9-89

646.3913

Manufactured No

Each

105.0000

646-391-3

Shim

**

DAS
6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

24

124108

24

DAS
27
9-89

JAN 08 2016

Picklist Print

December 16, 2015 9:26:41 AM

Page 16

Work Order ID: 139978

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139978

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

Each

109.0000

AN3-12A

Bolt

**

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

GA

5

m129682

5

ST349

104

m133064

16

m133234

88

Each

132.0000

**

MS27039-1-16

Purchased

No

MS27039-1-16

Screw

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

ST285

132

m130388

4

m131317

28

m132344

100

Each

3.0000

**

650.9201

Manufactured

No

650-9201

Eyebolt Bracket Assembly

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

cck127

3

136204

3

Each

24.0000

**

AN44-5A

Purchased

No

AN44-5A

Eyebolt

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

ST339

24

m126193

4

m133134

8

m133790

12

December 16, 2015 9:26:41 AM

Shop Packet Print

Page 16

Picklist Print

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Page 17

Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

Each

42.0000

AN665-34R

Clevis

2

DAS

6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

42

M130388

4

M133483

8

M133523

30

2

AN4C7A

Purchased

No

Each

82.0000

AN4C7A

BOLT

2

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

20

m133363

20

2

ST345

42

m127363

22

m133790

20

NAS1149F0432P

Purchased

No

Each

704.0000

NAS1149F0432P

WASHER

4

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

534

M132551

34

M133709

500

4

st268

170

M128995

45

M132677

125

16.02.03

See attach E-mail

DAS
27
9-89

per ECN 16-503

646.4410 x 1B

ADD M 524693-6378 x 5

DAS
27
9-89

139978

per ECN 16-503

JAN 15 2016

DAS
28
9-89

December 16, 2015 9:26:41 AM

Shop Packet Print

Page 17

16-2-4

Picklist Print

December 16, 2015 9:26:41 AM

Page 18

Work Order ID: 139978

139978

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

3,335.000

MS21042L4

Locknut

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

FP001

137

m133363

137

GA

49

m127813

49

ST260a

92

m130799

56

m132262

36

ST303

2924

m133769

2924

ST305

133

m128300

8

m130388

4

m130922

97

m132123

24

BAS
27
9-89

AN316C4R

Purchased

No

Each

89.0000

AN316C4R

NUT

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST331

89

m133234

43

m133523

46

BAS
27
9-89

MS21042-3

MS21042L3

Purchased

No

Each

18.0000

MS21042-3

Nut / use MS21042L3

**

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

BAS
27
9-89

133790

JAN 07 2016

December 16, 2015 9:26:41 AM

Shop Packet Print

Page 18

Picklist Print

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Page 19

Work Order ID: 139978

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139978

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

Each

344.0000

MS27039-08-13

Screw

**

6
9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST277

340

124326

340

ST281

4

M130388

4

Each

33.0000

MS21042-08

MS21042L08

Purchased

No

MS21042-08

USE MS21042L08

**

DAS
6
9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Each

4,549.000

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

**

DAS
6
9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

GA

103

M133316

103

ST260a

2500

M133769

2500

ST262

1946

M133709

1946

JAN 07 2016

December 16, 2015 9:26:41 AM

Shop Packet Print

Page 19

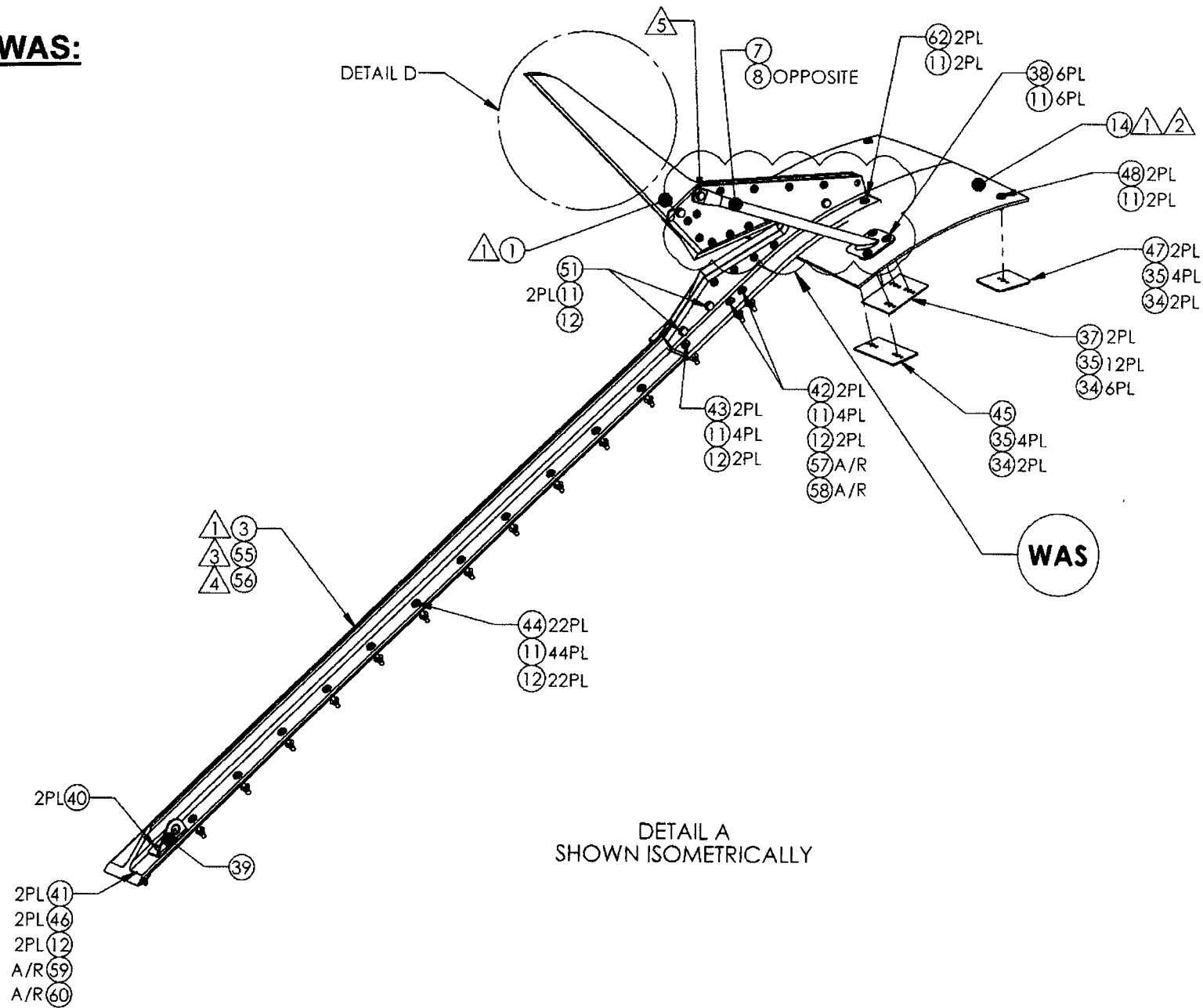
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04731				SHEET 1 OF 2	
	DWG NO. 646.4000	REV: A	PREPARED BY J. SOTO	DATE: 11/04/2014	EFFECT ON DWG ☒ INC. ☐ UNINC.	
	DWG TITLE: AS350 CABLE CUTTERS KIT					
	APPROVED BY: ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.					

20151216
 34 139979

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N TC	PART NUMBER	.4003	.4001				
	QTY				DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:	☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM	CHANGE CATEGORY	DER REVIEW REQUIRED
		☐ MAJOR ☒ MINOR	☐ YES ☒ NO

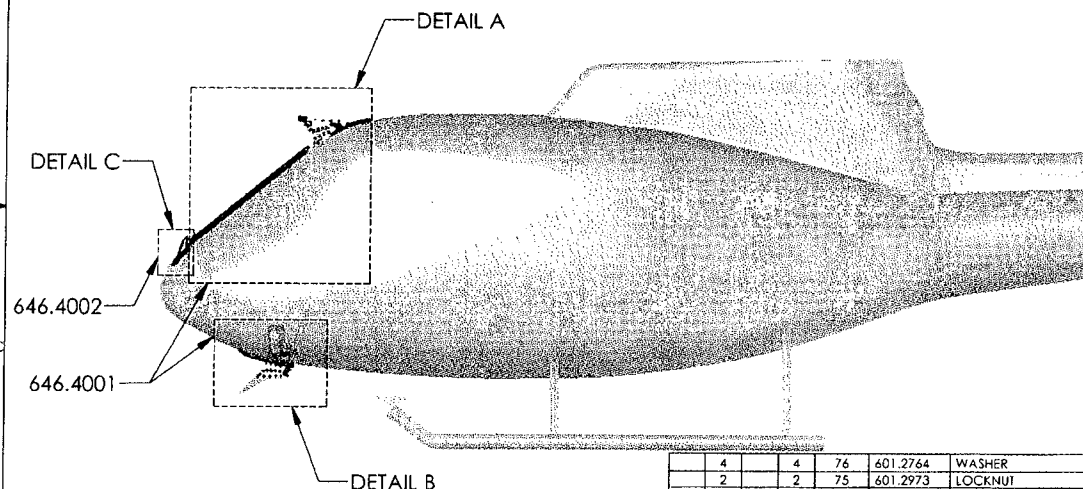
SHEET 2 WAS:



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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

[illegible]

	8 FT			55	600.0129	VHB TAPE			
	1	1	1	54	600.1012	SEALANT			PP-1 CLASS B
	1			53	600.0991	MAGNABOND 4398 PART B			
	1			52	600.0990	MAGNABOND 4398 PART A			AN3-11A
	10		10	51	601.2826	BOLT			
		2		50	646.3814	WIPER BRACKET			
			2	49	601.2910	SCREW			MS27039-1-18
2				2	48	601.1365	SCREW		MS27039-1-10
2				2	47	646.3719	DOUBLER		
	2			2	46	646.3718	CUSTOM WASHER		
1				1	45	646.3717	DOUBLER		
	22	2	22	44	601.1948	SCREW			MS27039-1-19
	2			2	43	601.1952	SCREW		MS27039-1-20
	4			2	42	601.1956	SCREW		MS27039-1-21
	2			2	41	601.2829	SCREW		MS24694554
	2			2	40	601.2831	RIVET		MS20426A05-7
	1			1	39	646.3716	GAUGE BRACKET		
	6			6	38	601.1953	SCREW		MS27039-1-12
2				2	37	646.3715	STRUT DOUBLER		
	8	2		2	36	601.2824	BOLT		AN3-5A
36				36	35	601.2277	RIVET		CCP28435-302
18				18	34	600.0795	NUT/PLATE		MS21047-3
3				3	33	601.2565	RIVET		MS20470AD5-7
1				1	32	646.3813	STRUT BRACKET		
4				4	31	601.2822	BOLT		AN3-3A
2				2	30	646.3812	GUSSET BRACKET		
8				8	29	601.2564	RIVET		MS20470AD5-6
1				1	28	646.3714	GUSSET		
	1			1	27	646.3410	FILLER		
				1	26	601.2830	SCREW		MS24694535
	2			2	25	601.2825	BOLT		AN3-6A
	1			1	24	646.3811	RADIUS BLOCK		
	1			1	23	646.3712	CLIP		
				1	22	646.3711	CLIP		
8				8	21	601.2832	RIVET		MS20470AD5-5
14				14	20	601.2020	RIVET		CP3213-53
10				10	19	601.2823	BOLT		AN3-4A
	1			1	18	601.2827	BOLT		AN3-13A
	5			5	17	601.2912	SCREW		MS24694531
1				1	16	646.3713	GUSSET		
1				1	15	646.3210	SUPPORT		
1				1	14	646.3710	DOUBLER		
	1			1	13	646.3110	CHANNEL		
8	53	6	61	12	601.1624	LOCKNUT			MS21042L3
18	120	16	138	11	601.1607	WASHER			MS1144063237
		1		10	646.3410	LH WIPER DEFLECTOR			
		1		9	646.3411	RH WIPER DEFLECTOR			
	2			2	8	647.7703	STRUT ASSY		
	2			2	7	647.0112	STRUT BRACKET		
	1			1	6	646.3511	STRUT		
	1			1	5	646.3510	STRUT		
2				2	4	646.3810	BRACKET		
	1			1	3	646.2910	DEFLECTOR		
	1			1	2	646.3001	LOWER CUTTER ASSY		
	1			1	1	646.3301	UPPER CUTTER ASSY		
X						646.4004	FIXED PROVISIONS KIT		
	X					646.4003	EXHIBIT CORREKTZ WITHOUT FIBER		
		X				646.4002	FIBERGLASS A3350 WIPER DEFLECTOR KIT		
			X			646.4001	A3350 CABLE CUTTERS KIT		
4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MAT'L		SPEC.
QTY						PARTS LIST			
NEXT ASSY (S)						APICAL INDUSTRIES			
ORIGINAL DATE 08-27-98						2608 TEMPLE HEIGHTS DR.			
DRAWN BY S. HUFF						OCEANSIDE, CA. 92056-3512 (760)724-5300			
CHECKED BY P. BRAVO									
DRAWING APPROVAL P. BRAVO									
08-27-98									
CONTRACT NO.									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:									
1 PLACE DECIMALS ± .015									
2 PLACE DECIMALS ± .005									
3 PLACE DECIMALS ± .0025									
APICAL INDUSTRIES									
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DETAIL D

REF 65 7 1

DETAIL D
PS MOUNT KIT INSTALLATION

DETAIL A
SHOWN ISOMETRICALLY

51 2 PL
11 4 PL
73 2 PL

62 2 PL
11 2 PL

69 2 PL
71 2 PL
70 4 PL
66 2 PL
67 2 PL

38 6 PL
11 6 PL

14 1 2

48 2 PL
11 2 PL

47 2 PL
35 4 PL
34 2 PL

37 2 PL
35 12 PL
34 6 PL

45 35 4 PL
34 2 PL

42 4 PL
11 8 PL
12 4 PL
57 A/R
58 A/R

43 2 PL
11 4 PL
12 2 PL

2 PL 68
2 PL 72

2 PL 7
2 PL 74
4 PL 75
4 PL 76

2 PL 51
4 PL 11
2 PL 12

1 1

44 22 PL
11 44 PL
12 22 PL

39

2 PL 40

2 PL 41
2 PL 12
2 PL 46
A/R 59
A/R 60

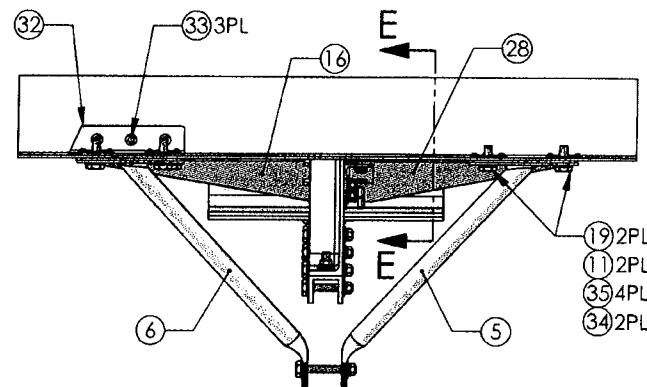
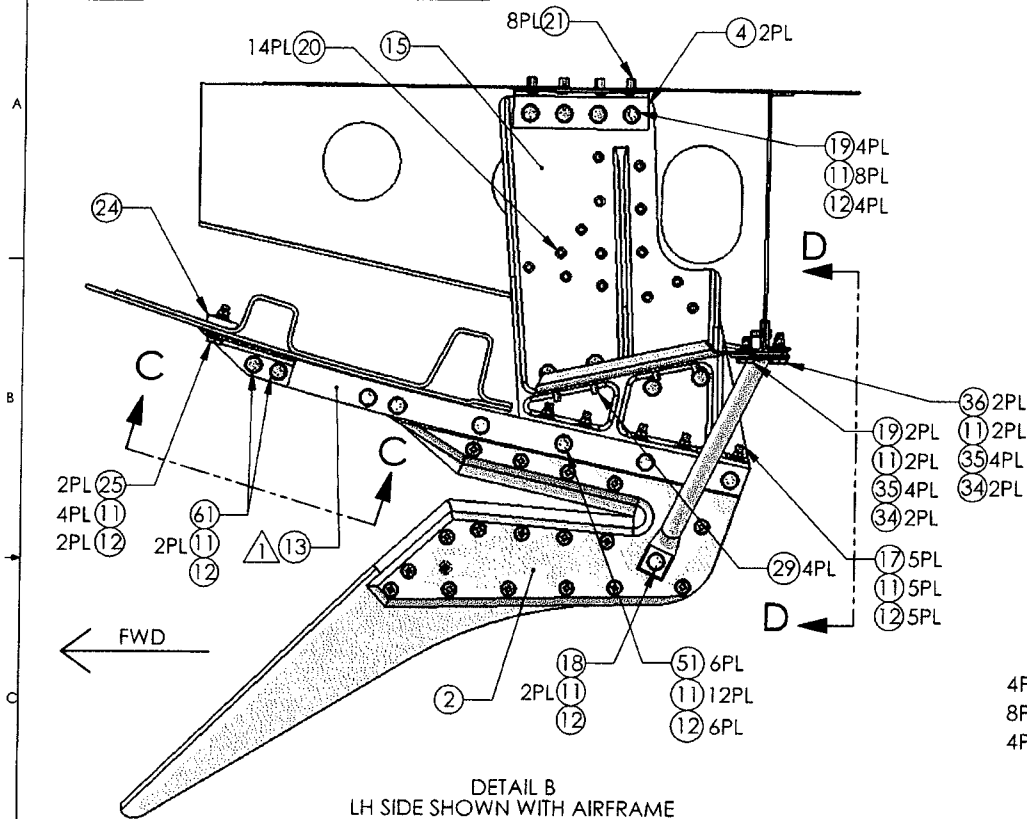
1 3
3 55
4 56

ORIGINAL DATE 10/2/84-178	08/77/08	APIC 2608 TEMPLE OCEANSIDE
EDT RWT BY S MBB	CHICKLER P. BRAVO	
DRAWING APPROVAL P. BRAVO		AS350
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		SIZE CAGE CODE

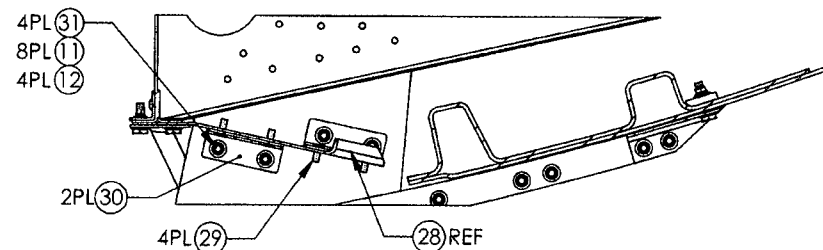
ORIGINAL DATE (MO-DA-YR) 08-27-08	APICAL INDUSTRIES		
DRAWN BY D. W. HUBB	2608 TEMPLE HEIGHTS DR.		
CHECKED BY S. HUBB	OCEANSIDE, CA 92056-3512 (760)724-5300		
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.	AS350 CABLE CUTTERS KIT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	SIZE	CAGE CODE	QWIG. NO.
1) FACE DIMENSIONS 2.001	08	07M26	646.4000
3) FACE DIMENSIONS 2.001	SCALE: NONE		REV. S
AUGUST			SHEET 2 OF 4

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



SECTION D-D
CUTTER HIDDEN FOR CLARITY

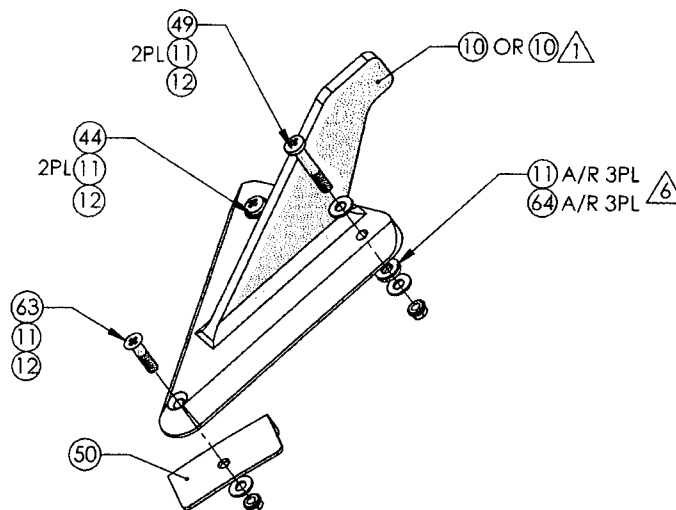


SECTION E-E

ORIGINAL DATE: 08-27-08 DESIGNED BY: J. HUFF DRAWING APPROVAL: P. BRAVO CONTRACT NO.:		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET CODE: B DWG. NO.: 646.4000 SCALE: NONE	REV: B SHEET 3 OF 4
AS350 CABLE CUTTERS KIT		646.4000	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE MOD-DATE 08-27-88 DRAWN BY S. HUFF CHECKED P. BRAVO APPROVED P. BRAVO DATE 08-27-88 CONTRACT No.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
	AS350 CABLE CUTTERS KIT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°	REV B	CAGE CODE 07M26	DWG. NO. 646.4000
	SCALE NONE		SHEET 4 OF 4

David Duval

From: Mario Poulin
Sent: January-07-16 2:02 PM
To: David Duval
Subject: FW: 646.9410 Shim

Fyi,

Not a show stopper for now, CCK350 (Shim)

Mario,

From: Marc Bellavance
Sent: Thursday, January 07, 2016 1:40 PM
To: Mario Poulin <mpoulin@dartaero.com>
Subject: FW: 646.9410 Shim

Hey Mario,

Here's your answer. I'm thinking that if a customer is requiring a shim we can follow up with a no charge shim or advise that he fabricate his own.

Marc

From: Jacob Becker
Sent: January-07-16 1:12 PM
To: Marc Bellavance <mbellavance@dartaero.com>; Lisa Mansfield <lmansfield@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Sian Willems <swillems@dartaero.com>
Subject: RE: 646.9410 Shim

It's not a show stopper. Currently we advise the customer that they need to shim it if OEM provisions are installed. I have just now included the shim in the kit.

Jacob

From: Marc Bellavance
Sent: Thursday, January 07, 2016 8:59 AM
To: Lisa Mansfield <lmansfield@dartaero.com>; Jacob Becker <JBecker@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Sian Willems <swillems@dartaero.com>
Subject: 646.9410 Shim

Lisa/Jacob,

You guys have introduced this laminated aluminum shim as part of our AS350 CCK kits for use when installing in conjunction with OEM fixed provisions. Seems like we're having a hard time sourcing this part and/or with its manufacturing (cutting this on the waterjet to 0.50" wide is far from ideal). Is this something you guys have in stock or can acquire easily? Also, is this a show stopper for all orders in WIP and others about to ship?

NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
2. INSTALL F/N 14 WITH F/N 52 & 53.
3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.
4. 3M TAPE PRIMER 94. APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
5. REMOVE FASTENERS FROM F/N 1.
6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 70 SCREW IN PLACE OF F/N 17 SCREW.
9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 24 IN PLACE OF F/N 61 WHEN NECESSARY.

**AS
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5-59**

REFERENCE ONLY

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECHS 02199, 02351, 02719 & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECH 03046, 03529 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECH 65096	09/09/2015	P. BRAVO

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